

CLAIMS

We claim:

1. A method for processing a cereal material comprising providing a cereal material, and continuously and simultaneously both having solvent absorbed by the cereal material and abrading the cereal material for a period of at least about 1 minute
2. The method according to claim 1 wherein the cereal material is abraded at about 5 to about 10,000 revolutions per minute.
3. The method according to claim 2 wherein the cereal material is abraded at about 100 to about 5,000 revolutions per minute.
4. The method according to claim 2 wherein the cereal material is abraded at about 500 to about 3,000 revolutions per minute.
5. The method according to claim 1 wherein the period of absorption of the solvent and abrasion of cereal material ranges from about 1 hour to about 3 hours.
6. The method according to claim 1 wherein the temperature ranges from about 1°C to about 100°C.
7. The method according to claim 6 wherein the temperature ranges from about 45°C to about 65°C.
8. The method according to claim 1 wherein the cereal material is selected from the group consisting of corn, oats, barley, wheat, rice, sorghum and mixtures thereof.
9. The method according to claim 1 wherein the solvent absorbed by the cereal material is a solvent selected from the group consisting of an aqueous solution, an organic solution and mixtures thereof.
10. The method according to claim 9 wherein the solvent further comprises at least one compound selected from the group consisting of wetting agents, reducing agents, enzymes, and pH modifiers.
11. The method according to claim 9 wherein the solvent is water.
12. The method according to claim 1 further comprising separating germ, fiber and protein from processed cereal material to provide a starch containing stream.
13. The method according to claim 12 wherein the starch containing stream is hydrolyzed.
14. A method for producing a fermentation feedstock comprising using the starch containing stream produced in accordance with claim 12.
15. A method for producing a fermentation feedstock comprising using the hydrolyzed starch containing stream produced in accordance with claim 13.
16. A method for using the starch containing stream of claim 12 as fermentation feedstock.

17. A method for using the hydrolyzed starch containing stream of claim 13 as fermentation feedstock.